



Fig.3

Sequence Range: 1 to 669

Bases 1-669 of SEQ ID NO: 2

10	20	30	40	50	60
GATCTTCCGG GACATCTGAG CGCCCGGAGG CGATCCGAGG CGCCCGAGGC GTCTGCGCGA					
70	80	90	100	110	120
AGGGCGCCGC CGTCCCGTCC ATCCCCGTCC CGCTCGACGC GGGCCGGGAG GGGGTGCCGC					
130	140	150	160	170	180
GGCGCCCTTC GGCTGTGTGG ACGAAGCGTC GGGTCGGAGG GGCAGCCCGA TATCGTCCTT					
190	200	210	220	230	240
GGGGCGGGGT GGCCCGAATT GCCGCCATGG TGTTGCCGGG GAATCGACCC GAAGACATGA					
250	260	270	280	290	300
TCACTTCTCG TATCCACCCG ATCACGTATC CGGGAGTCGA GAAGTGTAC GCGGTGCCCG					
310	320	330	340	350	360
TGTCCGGCGTC CTCACCCCTG TCGCCGTGAC AGCGACCCCG GTTCTTCCAC TCGCACGGAC					
370	380	390	400	410	420
GGCCCCACAG GACCTTCGG CCCGGGCTCG CCCCCGCCGCC TCGGTGACGG CCTCCGAATA					
430	440	450	460	470	480
ACGGGGCCGC CGGGGCCTCG GCCGGTTGAC CGATCCGGGT CACGGCCCGCC GCGGGCGGG					
490	500	510	520	530	540
CGGCCACGTC CGGTCTCGCC CGGCCCGACA TCGGCTGCGA CTGCTTCTCGC TCGCACTTCT					
550	560	570	580	590	600
TCCCCGCTCC CGGCCCCGTT TTTCCGCCGC CCAAGGTGCG GCGACGCCGTA CCGAATCCCC					
610	620	630	640	650	660
CTTCATCGCC ACGTGCTTCC GCACGGCCGC GTTCAACGAT GTTCCACGAC AAAGGAGTTG					
CAGGTTTCC					



Bases 1-1287 of SEQ ID NO:2

Fig.4

GATCTTCCGG GACATCTGAG GCGCCGGAGG CGATCCGAGG CGCCCGAGGC GTCTGCCGA 60
 AGGGCGCCGC CGTGCCGTCC ATCCCCGTCC CGCTCGACGC GGGCCGGGAG GGGGTGCC 120
 GGCCTCCCTTC GGCTGTGTGG ACGAAGCGTC GGGTCGGAGG GGGGGCCCGA TATCGTCCTT 180
 GGGGGGGGTT GGCCGGAATT GCCGCCATGG TGTTGCCGGG GAATCGACCC GAAGACATGA 240
 TCACTTCTCG TATCCACCCG ATCACGTATC CGGGACTCGA GAACTGTTAC GCCGTGCC 300
 TGTCGGCGTC CTCACCCCTG TCCCGGTGAC AGCGACCCGC GTTCTTCCAC TCGCACCGAC 360
 GGCCTCACAG GACCTTCGG CCCGGGCTCG CCCCGCCGCC TCGGTGACGG CCTCCGAATA 420
 ACCGGGCCCC CGGGGCGTCG CCCGGTTGAC CGATCCGGGT CACGGCCCCC GCGGGGGGG 480
 CGGCCACGTC CGGTCTCGCC CGGCCCGACA TCGGCTCCGA CTGGCTTCGC TCGCACTTCT 540
 TCCCGCCTCC CGGCCCGCTT TTTCCGCCGC CGAAGGTGGG GCGACGCCGA CCGAATCCCC 600
 CTTCATCGCG ACCTGCTTCC GCACGGGCCG GTTCAACGAT GTTCCACGAC AAAGGAGTTG 660
 CAGGTTTCC ATG CGC ATA CGC CGG AGA GCT CTC GTC TTC GCC ACT ATG AGT
 Mel Arg Ile Arg Arg Arg Ala Leu Val Phe Ala Thr Met Ser>
] 9 10

720 GCG GTG TTA TGC ACC GCC GGA TTC ATG CCG TCG GCC GGC GAG GCC GGC
 Ala Val Leu Cys Thr Ala Gly Phe Met Pro Ser Ala Gly Glu Ala Ala>

780 GCC GAC AAT GCC GCG GGG GAA GAG ACG AAG TCC TAC GCC GAA ACC TAC
 Ala Asp Asn Gly Ala Gly Glu Thr Lys Ser Tyr Ala Glu Thr Tyr>

840 CGC CTC ACC GCG GAT GAC GTC GCG AAC ATC AAC GCG CTC AAC GAA AGC
 Arg Leu Thr Ala Asp Asp Val Ala Asn Ile Asn Ala Leu Asn Glu Ser>

900 GCT CCG GCC GCT TCG AGC GCC GGC CCG TCG TTC CGG GCC CCC GAC TCC
 Ala Pro Ala Ala Ser Ser Ala Gly Pro Ser Phe Arg Ala Pro Asp Ser>

GAC GAC AGG GTC ACC CCT CCC GCC GAG CCG CTC GAC AGG ATG CCC GAC
 Asp Asp Arg Val Thr Pro Pro Ala Glu Pro Leu Asp Arg Met Pro Asp>

960 CCG TAC CGT CCC TCG TAC GGC AGG GCC GAG ACG GTC GTC AAC AAC TAC
 Pro Tyr Arg Pro Ser Tyr Gly Arg Ala Glu Thr Val Val Asn Asn Tyr>

1020 ATA CGC AAG TGG CAG CAG GTC TAC AGC CAC CGC GAC GCC AGG AAG CAG
 Ile Arg Lys Trp Gln Gln Val Tyr Ser His Arg Asp Gly Arg Lys Gln>

1080 CAG ATG ACC GAG GAG CAG CGG GAG TGG CTG TCC TAC GGC TGC GTC GGT
 Gln Met Thr Glu Glu Gln Arg Glu Trp Leu Ser Tyr Gly Cys Val Gly>

1140 GTC ACC TGG GTC AAT TCG CGT CAG TAC CCG ACG AAC AGA CTG GCC TTC
 Val Thr Trp Val Asn Ser Gly Gln Tyr Pro Thr Asn Arg Leu Ala Phe>

GCG TCC TTC GAC GAG GAC AGG TTC AAG AAC GAG CTG AAG AAC GGC AGG
 Ala Ser Phe Asp Glu Asp Arg Phe Lys Asn Glu Leu Lys Asn Gly Arg>

1200 CCC CGG TCC GCC GAG ACC CGG GCG GAG TTC GAG GGC CGC GTC GCG AAG
 Pro Arg Ser Gly Glu Thr Arg Ala Glu Phe Glu Gly Arg Val Ala Lys>

1260 GAG AGC TTC GAC GAG GAG AAG GGC TTC CAG CGG GCG CGT GAG GTG GCG
 Glu Ser Phe Asp Glu Glu Lys Gly Phe Gln Arg Ala Arg Glu Val Ala>



Fig.5

Bases 1288-2393 of SEQ ID NO: 2

1320
 TCC GTC ATG AAC AGG GCC CTG GAG AAC GCC CAC GAC GAG AGC GCT TAC
 Ser Val Met Asn Arg Ala Leu Glu Asn Ala His Asp Glu Ser Ala Tyr>

 1380
 CTC GAC AAC CTC AAG AAG GAA CTG GCG AAC GGC AAC GAC GCC CTG CGC
 Leu Asp Asn Leu Lys Glu Leu Ala Asn Gly Asn Asp Ala Leu Arg>

 AAC GAG GAC GCC CGT TCC CCG TTC TAC TCG GCG CTG CGG AAC ACG CCG
 Asn Glu Asp Ala Arg Ser Pro Phe Tyr Ser Ala Leu Arg Asn Thr Pro>

 1440
 TCC TTC AAG GAG CGG AAC GGA GGC AAT CAC GAC CCG TCC AGG ATG AAG
 Ser Phe Lys Glu Arg Asn Gly Asn His Asp Pro Ser Arg Met Lys>

 1500
 GCC GTC ATC TAC TCG AAG CAC TTC TGG AGC GGC CAG GAC CGG TCG AGT
 Ala Val Ile Tyr Ser Lys His Phe Trp Ser Gly Gin Asp Arg Ser Ser>

 1560
 TCG GCC GAC AAG AGG AAG TAC CGC GAC CCG GAC GCC TTC CGC CCC GCC
 Ser Ala Asp Lys Arg Lys Tyr Gly Asp Pro Asp Ala Phe Arg Pro Ala>

 1620
 CCG GGC ACC GGC CTG GTC GAC ATG TCG AGG GAC AGG AAC ATT CCG CGC
 Pro Gly Thr Gly Leu Val Asp Met Ser Arg Asp Arg Asn Ile Pro Arg>

 AGC CCC ACC AGG CCC GGT GAG GGA TTC GTC AAT TTC GAC TAC GGC TGG
 Ser Pro Thr Ser Pro Gly Glu Gly Phe Val Asn Phe Asp Tyr Gly Trp>

 1680
 TTC GGC GCC CAG ACC GAA GCG GAC GCC GAC AAG ACC GTC TGG ACC CAC
 Phe Gly Ala Gln Thr Glu Ala Asp Ala Asp Lys Thr Val Trp Thr His>

 1740
 GGA AAT CAC TAT CAC GCG CCC AAT GGC AGC CTG GGT GCC ATG CAT GTC
 Gly Asn His Tyr His Ala Pro Asn Gly Ser Leu Gly Ala Met His Val>

 1800
 TAC GAG AGC AAG TTC CGC AAC TGG TCC GAG GGT TAC TCG GAC TTC GAC
 Tyr Glu Ser Lys Phe Arg Asn Trp Ser Glu Gly Tyr Ser Asp Phe Asp>

 1860
 CGC GGA GCC TAT GTG ATC ACC TTC ATC CCC AAG AGC TGG AAC ACC ACC GCC
 Arg Gly Ala Tyr Val Ile Thr Phe Ile Pro Lys Ser Trp Asn Thr Ala>

 CCC GAC AAG GTA AAG CAG GGC TGG CCG TGA TGTGAGC GGGCTGGAGG
 Pro Asp Lys Val Lys Gln Gly Trp Pro ***>

 1920
 GGAGCCGGTT GCCCCGGCTCC CCTCCACCCCT CTCCCCGCC ACCACGAAAG TCGCTACAGC

 1980
 TCGTGTCCCC TCGTGCTGTC GACCTGGGCC GGGAGTTGCG CCTCGTGGCG GTCGCCCCGTC

 2040
 GTCGGGGTGC CCGTGGGTTG GAACATGAGG ATGGAGGCGC CCGGGGAGGA CGGCTTGTGT

 2100
 TCGGTGCCCT TGGGCACCA GAAGGTGTGCG CCCTTGTGCA GGCCCACCGT GTGTTCCGTT

 2160
 CCGTCGGAGT CGCGGAGGCG CACGTGAAAG CGGCCGTCCA GGACGAGGAA GAACTCGTGC

 2220
 GTGTCCTCGT GGACGTGCCA GACGTGCTCG CCTCGGGTGT GGGCGACCGC GACGTGCTAG

 2280
 TCGTTCATGC GGGCGACCAT GCGCGGGCTG TAGACGTCGT CGAAGGAGGC GAGGGCCTTG

 2340
 GCGAGGTTGA CGGGCTCGGT GTCGTTCATG GTCCGAGTCT CGGGGGAGC CGGCCGCGC
 GTC